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2015-01827

COE 197S ME 8: Activity 1

PULLING AN IMAGE

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker images
REPOSITORY              TAG       IMAGE ID       CREATED        SIZE
docker101tutorial       latest    7b5ba9c64d1c   14 hours ago   28MB
alpine/git              latest    2abeafdff5b9   3 days ago     25.1MB
docker/getting-started  latest    3ba8f2ff0727   2 months ago   27.9MB

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker search ubuntu
NAME                                            DESCRIPTION                                     STARS   OFFICIAL   AUTOMATED
ubuntu                                          Ubuntu is a Debian-based Linux operating sys…   12264   [OK]
dorowu/ubuntu-desktop-lxde-vnc                  Docker image to provide HTML5 VNC interface …   532                [OK]
websphere-liberty                               WebSphere Liberty multi-architecture images …   271     [OK]
rastasheep/ubuntu-sshd                          Dockerized SSH service, built on top of offi…   251                [OK]
consol/ubuntu-xfce-vnc                          Ubuntu container with "headless" VNC session…   240                [OK]
ubuntu-upstart                                  Upstart is an event-based replacement for th…   110     [OK]
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mysql-5  ubuntu-16-nginx-php-phpmyadmin-mysql-5    50                 [OK]
open-liberty                                    Open Liberty multi-architecture images based…   45      [OK]
ubuntu-debootstrap                              debootstrap --variant=minbase --components=m…   44      [OK]
i386/ubuntu                                     Ubuntu is a Debian-based Linux operating sys…   25
nuagebec/ubuntu                                 Simple always updated Ubuntu docker images w…   24                 [OK]
solita/ubuntu-systemd                           Ubuntu + systemd                                24                 [OK]
1and1internet/ubuntu-16-apache-php-5.6          ubuntu-16-apache-php-5.6                        14                 [OK]
1and1internet/ubuntu-16-apache-php-7.0          ubuntu-16-apache-php-7.0                        13                 [OK]
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10  ubuntu-16-nginx-php-phpmyadmin-mariadb-10  11              [OK]
1and1internet/ubuntu-16-nginx-php-5.6-wordpress-4  ubuntu-16-nginx-php-5.6-wordpress-4          9                  [OK]
1and1internet/ubuntu-16-nginx-php-5.6           ubuntu-16-nginx-php-5.6                         8                  [OK]
1and1internet/ubuntu-16-apache-php-7.1          ubuntu-16-apache-php-7.1                        7                  [OK]
1and1internet/ubuntu-16-nginx-php-7.0           ubuntu-16-nginx-php-7.0                         4                  [OK]
pivotaldata/ubuntu                              A quick freshening-up of the base Ubuntu doc…   4
pivotaldata/ubuntu16.04-build                   Ubuntu 16.04 image for GPDB compilation         2
smartentry/ubuntu                               ubuntu with smartentry                          1                  [OK]
1and1internet/ubuntu-16-sshd                    ubuntu-16-sshd                                  1                  [OK]
1and1internet/ubuntu-16-php-7.1                 ubuntu-16-php-7.1                               1                  [OK]
pivotaldata/ubuntu-gpdb-dev                     Ubuntu images for GPDB development               1

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
80bce60046fa: Pull complete
55a738a15540: Pull complete
e19cf0706c62: Pull complete
de4cdd6c27d1: Pull complete
Digest: sha256:98afb2808ee1ec6aa4d7c8f8b82c6347b9ae156932f7186182b997f3d5616ebe
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04
```

RUNNING THE CONTAINER

1)
```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'
```

2)
```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>socker ps -a
'socker' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE                   COMMAND                  CREATED         STATUS                     PORTS                               NA
MES
3885800a9556   ubuntu:16.04            "/bin/echo 'Hello wo…"   6 minutes ago   Exited (0) 6 minutes ago                                       da
zzling_mirzakhani
e681dd396140   docker/getting-started  "/docker-entrypoint.…"   33 minutes ago  Exited (0) 7 minutes ago                                       in
spiring_rubin
5194dc8e9446   docker101tutorial       "/docker-entrypoint.…"   15 hours ago    Exited (255) 41 minutes ago  0.0.0.0:80->80/tcp, :::80->80/tcp  do
cker-tutorial
5114831c3772   alpine/git              "git clone https://g…"   15 hours ago    Exited (0) 15 hours ago                                        re
po
```

3)

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run ubuntu:16.04 /bin/bash

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE                 COMMAND                  CREATED          STATUS                     PORTS                             NA
MES
72851938723b   ubuntu:16.04          "/bin/bash"              14 seconds ago   Exited (0) 11 seconds ago                                    af
fectionate_golick
3885800a9556   ubuntu:16.04          "/bin/echo 'Hello wo…"   8 minutes ago    Exited (0) 8 minutes ago                                     da
zzling_mirzakhani
e681dd396140   docker/getting-started "/docker-entrypoint.…"   35 minutes ago   Exited (0) 9 minutes ago                                     in
spiring_rubin
5194dc8e9446   docker101tutorial     "/docker-entrypoint.…"   15 hours ago     Exited (255) 43 minutes ago   0.0.0.0:80->80/tcp, :::80->80/tcp   do
cker-tutorial
5114831c3772   alpine/git            "git clone https://g…"   15 hours ago     Exited (0) 15 hours ago                                      re
po

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run -it ubuntu:16.04 /bin/bash
root@5f5805ad3946:/# pwd
/
root@5f5805ad3946:/# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@5f5805ad3946:/# exit
exit

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>
```

4)

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run -d ubuntu:16.04 /bin/sleep 3600
c440c3cedfd2596110f1fe509648313745fd600c65e55d869bd535cfe025ea95

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE          COMMAND             CREATED         STATUS         PORTS     NAMES
c440c3cedfd2   ubuntu:16.04   "/bin/sleep 3600"   9 seconds ago   Up 7 seconds             naughty_gould

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>
```

5)

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker exec -it c44 /bin/bash
root@c440c3cedfd2:/# ps aux
USER       PID %CPU %MEM    VSZ    RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0   4372    808 ?        Ss   10:02   0:00 /bin/sleep 3600
root         7  0.3  0.0  18236   3288 pts/0    Ss   10:05   0:00 /bin/bash
root        18  0.0  0.0  34420   2848 pts/0    R+   10:05   0:00 ps aux
root@c440c3cedfd2:/# exit
exit

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE          COMMAND             CREATED         STATUS         PORTS     NAMES
c440c3cedfd2   ubuntu:16.04   "/bin/sleep 3600"   3 minutes ago   Up 3 minutes             naughty_gould

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>
```

6)

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker stop c44
c44

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE                 COMMAND                  CREATED          STATUS                     PORTS                             NAMES
c440c3cedfd2   ubuntu:16.04          "/bin/sleep 3600"        4 minutes ago    Exited (137) 16 seconds ago                                  naughty_gould
5f5805ad3946   ubuntu:16.04          "/bin/bash"              6 minutes ago    Exited (0) 6 minutes ago                                     nostalgic_fermat
72851938723b   ubuntu:16.04          "/bin/bash"              7 minutes ago    Exited (0) 7 minutes ago                                     affectionate_golick
3885800a9556   ubuntu:16.04          "/bin/echo 'Hello wo…"   15 minutes ago   Exited (0) 15 minutes ago                                    dazzling_mirzakhani
e681dd396140   docker/getting-started "/docker-entrypoint.…"   42 minutes ago   Exited (0) 16 minutes ago                                    inspiring_rubin
5194dc8e9446   docker101tutorial     "/docker-entrypoint.…"   15 hours ago     Exited (255) 50 minutes ago   0.0.0.0:80->80/tcp, :::80->80/tcp   docker-tutorial
5114831c3772   alpine/git            "git clone https://g…"   15 hours ago     Exited (0) 15 hours ago                                      repo

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>
```

7)

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE                  COMMAND                 CREATED         STATUS                     PORTS                              NAMES
c440c3cedfd2   ubuntu:16.04           "/bin/sleep 3600"       5 minutes ago   Exited (137) About a minute ago                               naughty_gould
5f5805ad3946   ubuntu:16.04           "/bin/bash"             7 minutes ago   Exited (0) 7 minutes ago                                      nostalgic_fermat
72851938723b   ubuntu:16.04           "/bin/bash"             8 minutes ago   Exited (0) 8 minutes ago                                      affectionate_golick
3885800a9556   ubuntu:16.04           "/bin/echo 'Hello wo…"  16 minutes ago  Exited (0) 16 minutes ago                                     dazzling_mirzakhani
e681dd396140   docker/getting-started "/docker-entrypoint.…"  44 minutes ago  Exited (0) 17 minutes ago                                     inspiring_rubin
5194dc8e9446   docker101tutorial      "/docker-entrypoint.…"  15 hours ago    Exited (255) 52 minutes ago  0.0.0.0:80->80/tcp, :::80->80/tcp  docker-tutorial
5114831c3772   alpine/git             "git clone https://g…"  15 hours ago    Exited (0) 15 hours ago                                       repo

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker rm c44
c44

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE                  COMMAND                 CREATED         STATUS                     PORTS                              NAMES
5f5805ad3946   ubuntu:16.04           "/bin/bash"             8 minutes ago   Exited (0) 8 minutes ago                                      nostalgic_fermat
72851938723b   ubuntu:16.04           "/bin/bash"             9 minutes ago   Exited (0) 9 minutes ago                                      affectionate_golick
3885800a9556   ubuntu:16.04           "/bin/echo 'Hello wo…"  17 minutes ago  Exited (0) 17 minutes ago                                     dazzling_mirzakhani
e681dd396140   docker/getting-started "/docker-entrypoint.…"  44 minutes ago  Exited (0) 18 minutes ago                                     inspiring_rubin
5194dc8e9446   docker101tutorial      "/docker-entrypoint.…"  15 hours ago    Exited (255) 52 minutes ago  0.0.0.0:80->80/tcp, :::80->80/tcp  docker-tutorial
5114831c3772   alpine/git             "git clone https://g…"  15 hours ago    Exited (0) 15 hours ago                                       repo
PS C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers> docker rm $(docker ps
-a -q)
5f5805ad3946
72851938723b
3885800a9556
e681dd396140
5194dc8e9446
5114831c3772
PS C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers> docker run --rm ubuntu
:16.04 /bin/echo 'Hello and goodbye!'
Hello and goodbye!
PS C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers> docker ps -a
CONTAINER ID   IMAGE     COMMAND     CREATED     STATUS     PORTS     NAMES
PS C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>
```